

KEEN'S SUSCEPTIBILITY CLASSIFICATION OF PONDEROSA PINE

Analyzed from Keen's published paper leaving out vigor except as an explanation of general class vigor. This has been done on the basis that vigor (Keen) or susceptibility to insect attack appears to be a factor independent of age, crown form and position in stand. Thus it cannot be combined with them in a single subclass when considering individual trees separately as is done in marking.

AGE CLASSES:

1.

Age - Young

Bark - dark grayish-brown to black, deeply furrowed, with narrow ridges between the fissures.

Top form - Pointed

Nodes - Distinct

Branches - Upturned

Whorls - Distinct

2.

Age - Immature

Bark - Dark reddish brown, with narrow, smooth plates between the fissures

Top form - Usually pointed

Nodes - Indistinct

Branches - Usually upturned

Whorls - Distinct in upper half of crown

3.

Age - Mature

Bark - Light reddish brown with moderately large plates between the fissures

Top form - Pyramidal or rounder

Nodes - (Indistinct)

Branches - Upturned near top, those of middle crown horizontal, lower ones drooping

Whorls - Incomplete

4.

Age - Overmature

Bark - Light yellow, the plates usually very wide, long and smooth

Top form - Usually flat and making no further height growth

Nodes - (Indistinct)

Branches - Mostly drooping, gnarled, or crooked

Whorls - (Indistinct)

CROWN CLASSES

A.

Crown length - 55 percent of total height or more
Crown width - Average or wider
Crown position - Isolated or dominant, sometimes codominant
Diameters - Large for age
General vigor - Good

B.

Crown length - Less than 55 percent of total height
Crown width - Average or narrower, either short, wide or longer and narrow
Crown position - Usually co-dominant, but sometimes isolated or dominant
Diameters - Above average for age
General vigor - Fair to moderate

C.

Crown length - All lengths
Crown width - Very narrow or only a tuft at top
Crown position - Usually intermediate, sometimes co-dominant, rarely isolated
Diameters - Below average for age
General vigor - Fair to poor

D.

Crown length - All lengths
Crown width - Usually narrow
Crown position - Suppressed or intermediate
Diameters - Decidedly subnormal considering age
General vigor - Very poor

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